

FIGURE 1

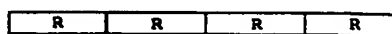
Generating Molecular Diversity using NCL*

CXC chemokine



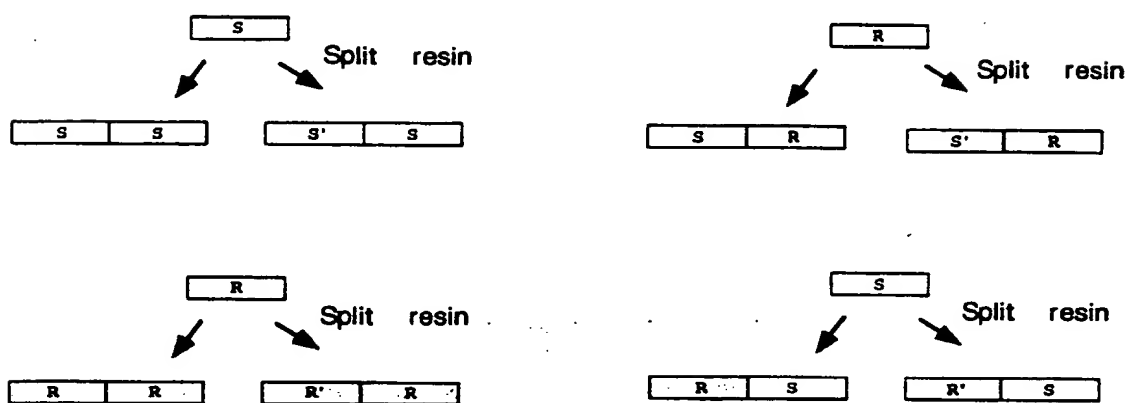
SDF1 α

CC chemokine



RANTES

8x N-terminal modules



4x C-terminal modules



Ligation at Xxx-Cys bond to generate hybrid molecule

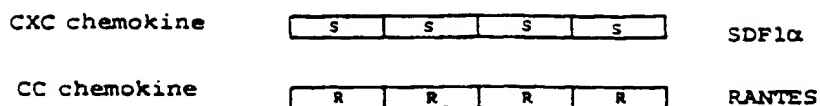
*NCL= native chemical ligation

S'=-Pro & R=+Pro

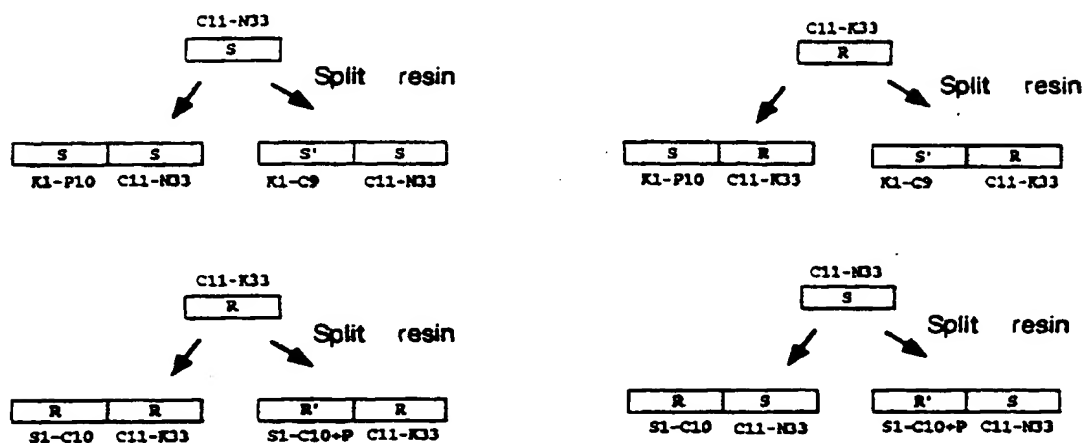
2004-06-01 10:00:00

FIGURE 2

Generating Molecular Diversity using NCL*



8x N-terminal modules



4x C-terminal modules



Ligation at Xxx-Cys bond to generate hybrid molecule

*NCL= native chemical ligation

S' = -Pro & R' = +Pro

FIGURE 3

CHEMOKINE PATTERNS AND MPBV

The two amino acids preceding the central cysteine are evaluated when designing improved agonists or antagonists. MPBV* (vMIP-I or vMIP-II)

[illegible]

	24									30									40				
RANTES	K	E	Y	F	Y	T	S	G	K	C	S	N	P	A	V	V	F	V	T	R		K	
SDF1	K	L	H	K	I	L	N	T	P	N	C	A	L	Q	I	V	A	R	L	K	N	N	
MPBV*	S	S	W	Y	P	T	S	Q	L	C	S	K	P	G	V	I	F	L	T	K		R	
								↑	↑			↑			*		*		*				

[illegible]

* = Hydrophobic core side chains, highly conserved.

Bolded positions indicate conservation between all 3 or (MPBV and another).

$\uparrow \cdot =$ Unique position, MPBV matches neither RANTES nor SDF1 α .

All three N-termini are unique. Likewise the two positions before the central cysteine are unique.

FIGURE 4

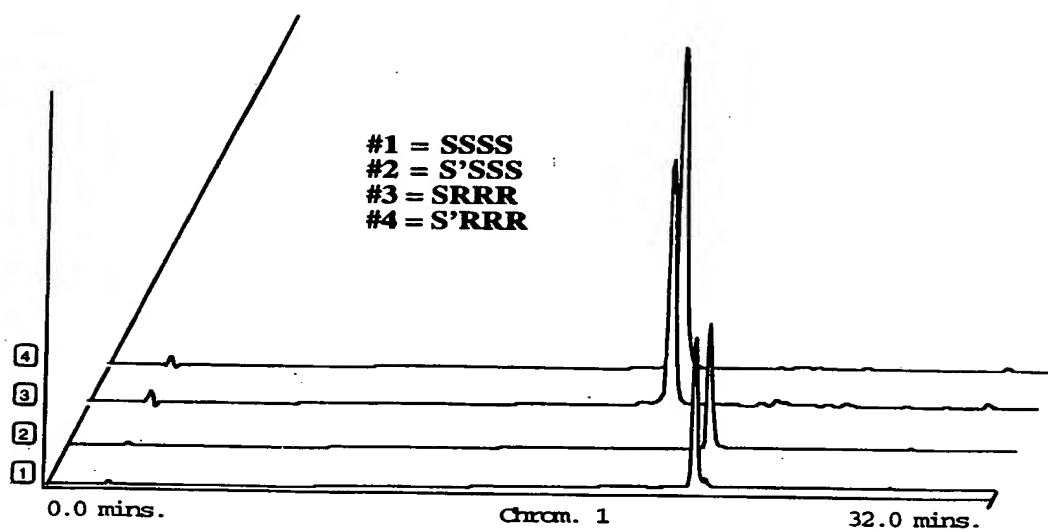


FIGURE 5

